

RAW SEQUENCE LISTING DATE: 09/12/2002 PATENT APPLICATION: US/09/856,796B TIME: 10:01:56

Input Set : A:\Us98cnrn.app

Output Set: N:\CRF4\09122002\I856796B.raw

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3 <110> APPLICANT: HIRSCH, FRANCOIS
             HAEFFNER, ASTRID
     6 <120> TITLE OF INVENTION: NF-KB ACTIVATION INHIBITORS, AND THEIR PHARMACEUTICAL
             USES
     9 <130> FILE REFERENCE: USB98CNRN
    11 <140> CURRENT APPLICATION NUMBER: 09/856,796B
C-4> 12 <141> CURRENT FILING DATE: 2001-09-07
    14 <150> PRIOR APPLICATION NUMBER: PCT/FR99/02897
    15 <151> PRIOR FILING DATE: 1999-11-24
    17 <150> PRIOR APPLICATION NUMBER: FR 98/14858
    18 <151> PRIOR FILING DATE: 1998-11-25
    20 <160> NUMBER OF SEQ ID NOS: 4
    22 <170> SOFTWARE: PatentIn Ver. 2.1
    24 <210> SEQ ID NO: 1
    25 <211> LENGTH: 609
    26 <212> TYPE: DNA
    27 <213> ORGANISM: Homo sapiens
    29 <220> FEATURE:
    30 <221> NAME/KEY: CDS
    31 <222> LOCATION: (1)..(606)
    33 <400> SEQUENCE: 1
    34 atg gct aca ggc tcc cgg acg tcc ctg ctc ctg gct ttt ggc ctg ctc
    35 Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
    38 tgc ctg ccc tgg ctt caa gag ggc agt gcc ttc cca acc att ccc tta
    39 Cys Leu Pro Trp Leu Gln Glu Gly Ser Ala Phe Pro Thr Ile Pro Leu
    40
                    20
                                         25
    42 tcc agg ctt ttt gac aac gct agt ctc cgc gcc cat cgt ctg cac cag
    43 Ser Arg Leu Phe Asp Asn Ala Ser Leu Arg Ala His Arg Leu His Gln
                                     40
    46 ctg gcc ttt gac acc tac cag gag ttt aac ccc cag acc tcc ctc tgt
    47 Leu Ala Phe Asp Thr Tyr Gln Glu Phe Asn Pro Gln Thr Ser Leu Cys
                                 55
    50 ttc tca gag tct att ccg aca ccc tcc aac agg gag gaa aca caa cag
    51 Phe Ser Glu Ser Ile Pro Thr Pro Ser Asn Arg Glu Glu Thr Gln Gln
    52 65
                             70
                                                 75
    54 aaa too aac cta gag ctg ctc cgc atc too ctg ctg ctc atc cag tcg
    55 Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser Leu Leu Ile Gln Ser
                         85
                                             90
    58 tgg ctg gag ccc gtg cag ttc ctc agg agt gtc ttc gcc aac agc ctg
    59 Trp Leu Glu Pro Val Gln Phe Leu Arg Ser Val Phe Ala Asn Ser Leu
                   100
                                        105
                                                            110
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62 gtg tac ggc gcc tct gac agc aac gtc tat gac ctc cta aag gac cta

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DATE: 09/12/2002 PER TIME: 10:01:56 PR PROPERTY OF THE PROPERT
63 Val Tyr Gly Ala Ser Asp Ser Asn Val Tyr Asp Leu Leu Lys Asp Leu
                       115
                                                                 120
                                                                                                                                                   432
66 gag gaa ggc atc caa acg ctg atg ggg agg ctg gaa gat ggc agc ccc
67 Glu Glu Gly Ile Gln Thr Leu Met Gly Arg Leu Glu Asp Gly Ser Pro
              130
                                                         135
                                                                                                   140
70 cgg act ggg cag atc ttc aag cag acc tac agc aag ttc gac aca aac
71 Arg Thr Gly Gln Ile Phe Lys Gln Thr Tyr Ser Lys Phe Asp Thr Asn
74 tca cac aac gat gac gca cta ctc aag aac tac ggg ctg ctc tac tgc
75 Ser His Asn Asp Asp Ala Leu Leu Lys Asn Tyr Gly Leu Leu Tyr Cys
                                        165
                                                                                   170
78 ttc agg aag gac atg gac aag gtc gag aca ttc ctg cgc atc gtg cag
79 Phe Arg Lys Asp Met Asp Lys Val Glu Thr Phe Leu Arg Ile Val Gln
                               180
                                                                          185
82 tgc cgc tct gtg gag ggc agc tgt ggc ttc tag
83 Cys Arg Ser Val Glu Gly Ser Cys Gly Phe
                       195
87 <210> SEQ ID NO: 2
88 <211> LENGTH: 202
89 <212> TYPE: PRT
90 <213> ORGANISM: Homo sapiens
92 <400> SEQUENCE: 2
93 Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu
96 Cys Leu Pro Trp Leu Gln Glu Gly Ser Ala Phe Pro Thr Ile Pro Leu
                                 20
                                                                            25
99 Ser Arg Leu Phe Asp Asn Ala Ser Leu Arg Ala His Arg Leu His Gln
                           35
102 Leu Ala Phe Asp Thr Tyr Gln Glu Phe Asn Pro Gln Thr Ser Leu Cys
                                                             55
105 Phe Ser Glu Ser Ile Pro Thr Pro Ser Asn Arg Glu Glu Thr Gln Gln
106 65
                                                                                               75
108 Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser Leu Leu Ile Gln Ser
                                            85
                                                                                       90
111 Trp Leu Glu Pro Val Gln Phe Leu Arg Ser Val Phe Ala Asn Ser Leu
                                                                            105
                                 100
114 Val Tyr Gly Ala Ser Asp Ser Asn Val Tyr Asp Leu Leu Lys Asp Leu
                         115
117 Glu Glu Gly Ile Gln Thr Leu Met Gly Arg Leu Glu Asp Gly Ser Pro
118
                 130
                                                           135
120 Arg Thr Gly Gln Ile Phe Lys Gln Thr Tyr Ser Lys Phe Asp Thr Asn
                                                   150
123 Ser His Asn Asp Asp Ala Leu Leu Lys Asn Tyr Gly Leu Leu Tyr Cys
                                                                                    170
                                          165
126 Phe Arg Lys Asp Met Asp Lys Val Glu Thr Phe Leu Arg Ile Val Gln
127
                                 180
                                                                            185
129 Cys Arg Ser Val Glu Gly Ser Cys Gly Phe
                         195
133 <210> SEQ ID NO: 3
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134 <211> LENGTH: 582
135 <212> TYPE: DNA
136 <213> ORGANISM: Homo sapiens
138 <220> FEATURE:
139 <221> NAME/KEY: CDS
140 <222> LOCATION: (1)..(579)
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145
                                                                       96
147 ctg tcg ctc cct ctg ggc ctc cca gtc ctg ggc gcc cca cca cgc ctc
148 Leu Ser Leu Pro Leu Gly Leu Pro Val Leu Gly Ala Pro Pro Arg Leu
                 20
                                     25
151 atc tgt gac agc cga gtc ctg gag agg tac ctc ttg gag gcc aag gag
                                                                       144
152 Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr Leu Leu Glu Ala Lys Glu
            35
                                 40
153
155 qcc gag aat atc acg acg ggc tgt gct gaa cac tgc agc ttg aat gag
                                                                       192
156 Ala Glu Asn Ile Thr Thr Gly Cys Ala Glu His Cys Ser Leu Asn Glu
                             55
157
         50
159 aat atc act gtc cca gac acc aaa gtt aat ttc tat gcc tgg aag agg
                                                                       240
160 Asn Ile Thr Val Pro Asp Thr Lys Val Asn Phe Tyr Ala Trp Lys Arg
                         70
161 65
163 atg gag gtc ggg cag cag gcc gta gaa gtc tgg cag ggc ctg gcc ctg
                                                                       288
164 Met Glu Val Gly Gln Gln Ala Val Glu Val Trp Gln Gly Leu Ala Leu
165
                     85
167 ctg tcg gaa gct gtc ctg cgg ggc cag gcc ctg ttg gtc aac tct tcc
                                                                       336
168 Leu Ser Glu Ala Val Leu Arg Gly Gln Ala Leu Leu Val Asn Ser Ser
                                    105
                100
171 cag ccg tgg gag ccc ctg cag ctg cat gtg gat aaa gcc gtc agt ggc
172 Gln Pro Trp Glu Pro Leu Gln Leu His Val Asp Lys Ala Val Ser Gly
            115
                                120
175 ctt cgc agc ctc acc act ctg ctt cgg gct ctg gga gcc cag aag gaa
176 Leu Arg Ser Leu Thr Thr Leu Leu Arg Ala Leu Gly Ala Gln Lys Glu
177
        130
                            135
179 gcc atc tcc cct cca gat gcg gcc tca gct gct cca ctc cga aca atc
180 Ala Ile Ser Pro Pro Asp Ala Ala Ser Ala Ala Pro Leu Arg Thr Ile
                        150
                                            155
183 act gct gac act ttc cgc aaa ctc ttc cga gtc tac tcc aat ttc ctc
                                                                       528
184 Thr Ala Asp Thr Phe Arg Lys Leu Phe Arg Val Tyr Ser Asn Phe Leu
185
                                        170
                    165
187 cgg gga aag ctg aag ctg tac aca ggg gag gcc tgc agg aca ggg gac
                                                                       576
188 Arg Gly Lys Leu Lys Leu Tyr Thr Gly Glu Ala Cys Arg Thr Gly Asp
189
                180
                                    185
                                                                       582
191 aga tga
192 Arg
195 <210> SEQ ID NO: 4
196 <211> LENGTH: 193
197 <212> TYPE: PRT
198 <213> ORGANISM: Homo sapiens
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200 <400> SEQUENCE:					4											
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204	Leu	Ser	Leu	Pro	Leu	Gly	Leu	Pro	Val	Leu	Gly	Ala	Pro	Pro	Arg	Leu
205				20					25					30		
207	Ile	Cys	Asp	Ser	Arg	Val	Leu	Glu	Arg	Tyr	Leu	Leu	Glu	Ala	Lys	Glu
208			35					40					45			
210	Ala	Glu	Asn	Ile	Thr	Thr	_	Cys	Ala	Glu	His		Ser	Leu	Asn	Glu
211		50					55					60				
213	Asn	Ile	Thr	Val	Pro	_	Thr	Lys	Val	Asn		Tyr	Ala	Trp	Lys	
	65					70					75					80
216	Met	Glu	Val	Gly	Gln	Gln	Ala	Val	Glu	Val	Trp	Gln	Gly	Leu		Leu
217					85					90					95	
219	Leu	Ser	Glu	Ala	Val	Leu	Arg	Gly		Ala	Leu	Leu	Val		Ser	Ser
220				100					105					110		
	Gln	Pro	_	Glu	Pro	Leu	Gln		His	Val	Asp	Lys	Ala	Val	Ser	Gly
223			115					120					125			
	Leu	_	Ser	Leu	Thr	Thr		Leu	Arg	Ala	Leu		Ala	Gln	Lys	Glu
226		130					135			_	_	140				
		Ile	Ser	Pro	Pro		Ala	Ala	Ser	Ala		Pro	Leu	Arg	Thr	
	145					150					155		_	_		160
	Thr	Ala	Asp	Thr		Arg	Lys	Leu			Val	Tyr	Ser	Asn		Leu
232					165			_		170					175	_
	Arg	Gly	Lys		Lys	Leu	Tyr	Thr		Glu	Ala	Cys	Arg		GLY	Asp
235				180					185					190		
237	Arg															

VERIFICATION SUMMARY DATE: 09/12/2002 PATENT APPLICATION: US/09/856,796B TIME: 10:01:57

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date